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Subject: NCCETC Celebrates 30 years, State Energy Conference and more!



NC CLEAN ENERGY TECHNOLOGY CENTER

— *Celebrating 30 Years* —

January 2018



DONATE

Our Mission

The N.C. Clean Energy Technology Center advances a sustainable energy economy by educating, demonstrating and providing support for clean energy technologies, practices, and policies.

Upcoming Events

Cleantech Connect Career Fair

Talley Student Union
NC State University
January 30

Clean Energy Project Development in NC, VA, SC & GA

City Club, Raleigh
February 2

First Responder Clean Transportation Demonstration Day

February 28, 2018

Save the date for:

UNC Clean Tech Summit

March 1-2, 2018
Friday Center @ UNC
Chapel Hill, NC

State Energy Conference of North Carolina

April 17-18, 2018
McKimmon Conference &
Training Center
Raleigh, NC
SPONSOR THIS EVENT

(upcoming NCCETC events)

NCCETC Celebrates 30 years

From our Executive Director....



This year the NC Clean Energy Technology Center officially celebrates its 30th Anniversary. Since its beginning as the North Carolina Solar Center in 1988, NCCETC's common vision has been and remains "Advancing Clean Energy for a Sustainable Economy." Indeed, today NCCETC provides a greatly expanded and improved set of programs, resources and services designed to address the needs of the clean energy community in North Carolina, the Southeast and the Nation.

The true mark of an organization like NCCETC is our ability to consistently move forward, instituting necessary adjustments to the ever changing needs of our clients in particular, and the clean energy sector in general. The history of the Center is replete with significant milestones, including an expanding technology focus that began with passive solar design and solar water heating, and now includes photovoltaics, wind, bioenergy, energy storage, grid modernization technologies, clean transportation, green building and energy efficiency in numerous settings. This expansion in scope reflected the maturation of these technologies and their increase in applicability and economic potential to the citizens and businesses of our state. We also recognized the importance of programs, training offerings and services that bring together our technology roots with new knowledge in finance, regulation and policy to effectively serve our clients and grow markets.

The improvements realized over the last three decades must be attributed in great part to those who have served the Center in one role or the other. I would like to take this opportunity to thank both past and present dedicated Center staff, as well as NC State administrators that keep us functioning, and our many, many clients and students for their contributions to NCCETC's success. I also want to thank our many outside partners, especially including the State Energy Program in the Department of Environmental Quality (DEQ) and the North Carolina Sustainable Energy Association (NCSEA), which is having its own 40th anniversary this year! These two organizations were key partners with the NCSU faculty that created the Center by in 1988 and we wouldn't be here without their efforts.

As we celebrate our 30 years of progress, we are recommitting ourselves to continuously improve the quality of our programs, training and services by providing unwavering, visionary leadership to the clean energy sector in North Carolina and the country. Again, thank you all for your ongoing support!

Registration now open!

Training Spotlight

CREM
February 1-March 9

Solar Business Basics
February 16

REPV Online
February 20-March 29

The Center's Training program offers a number of special training sessions, conferences, and webinars for clean tech workers.

[Click here](#) for a complete list of the classes we offer.

Newsletter

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Keep in Touch!

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For questions and comments regarding our newsletter or the NCCETC email:
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2018 State Energy Conference of North Carolina

Innovation. Evolution. Revolution.



April 17 – 18, 2018

McKimmon Conference & Training Center
NC State University, Raleigh, NC
NCenergyconference.com

This year's [State Energy Conference of North Carolina](#) is organized to examine the impacts of energy technologies, policy and finance on customers at all levels of the energy marketplace:

- Residential Homes
- Commercial and Industrial Energy Use
- Governmental and Institutional Buildings
- Utilities and Infrastructure
- Research and Innovation
- Renewable Energy

[Agenda Available! View sessions](#)

Who Should Attend

Engineers, architects, facilities personnel, property managers from:

- Small businesses
- Developers
- Innovation firms
- Energy companies
- Colleges and universities
- Government / state agencies
- Corporations
- Nonprofit organizations

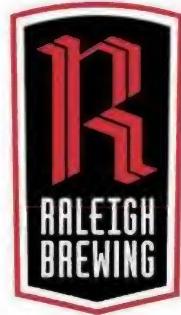
Why You Should Attend

- Benefit from over 75 expert speakers
- Choose among 30 different sessions in six different tracks
- Learn how the diverse energy mix is connecting our state
- Receive [professional continuing education credits](#) for engineers, architects, energy managers, and planners
- Network with 40+ exhibitors and sponsors at extended breaks and receptions

[REGISTER NOW](#)

Sponsorship and exhibitor opportunities are available. Please contact shannon_helm@ncsu.edu for more information

Networking Reception with



Particle Falls exhibit coming to Winston-Salem



The Center is proud to once again sponsor the [Particle Falls](#) exhibit again this year. The exhibit shows in real-time the amount of particulate matter air pollution in the air in the form of specks of light projected onto the side of a building.

The exhibit reflects how much particle matter is in the air. When there is more particulate matter floating in the air, yellow and orange specks on the blue waterfall background will appear. The exhibit will be on display in downtown Winston-Salem, projected onto the side of the Stevens Art Center (at the corner of West Fourth and Marshall Street), from February 22- March 24 starting after dark.

Interested in volunteering? We need volunteers to be at Particle Falls to talk to people about the exhibit and ways to reduce air pollution from vehicles. Opportunities are available to volunteer for a weekend shift: [Sign up here.](#)

Energy Department Announces Selection of NC State Led Team for Southeast Combined Heat and Power Project

Last November, the U.S. Department of Energy (DOE) announced the selection of a team led by the NC Clean Energy Technology Center as one of eight new regional Combined Heat and Power Technical Assistance Partnerships (CHP TAPs). This new award further establishes the Center's overall capacity to build a sustainable energy economy through support in policy, technical services and training, for clients considering clean power initiatives.

The Southeast CHP TAP will assist in the development of strategies to increase resilience to natural disasters and improve grid and electric delivery reliability; maximize CHP exposure to potential end-users and key stakeholders; and locally validate best practices in CHP technology policies and installation. Working with regional and state policymakers and stakeholders, the Southeast CHP TAP also offers assistance for evaluating the economic development, job creation, energy cost savings and continuity and reliability of proposed CHP systems.

Starting in early 2018, the Southeast CHP TAP will support development of CHP potential in the industrial, commercial and institutional applications in the following eight southeast states: North Carolina, South Carolina, Tennessee, Kentucky, Georgia, Alabama, Mississippi and Florida.

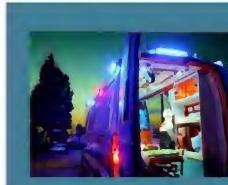
Since 2009, the CHP TAPs have provided technical support nationally, to over 1,900 clients. More than 441 of those projects, which have an estimated installed capacity of 8 GW, are in the project pipeline for installations.

The NCCETC team recently reached one of many milestones with a pilot project that will expand the deployment of community solar projects across the Southeastern United States. The Fayetteville Public Works Commission (PWC), the largest municipal utility in North Carolina, recently released a [Request for Qualifications \(RFQ\)](#) for developers and / or contractors to design and construct the utility's 1MW solar photovoltaic (PV) array, plus 500 kW storage project, as an outcome of the technical assistance provided by NCCETC.

The goal of the U.S. Department of Energy funded Community Solar for the Southeast project is to expand the deployment of solar projects across the southeast United States by spurring the development of community solar programs in the territory of cooperatives and municipal utilities. Community solar projects are ground-mounted PV systems that are generally smaller than other utility-scale solar projects. They are large enough to provide low-cost solar electricity, yet they are small enough to allow for flexibility of location, which allows the utility to leverage localized benefits.

To learn more on how to participate and to see how the NCCETC can help with projects like these, please click [here](#).

Save the Date!



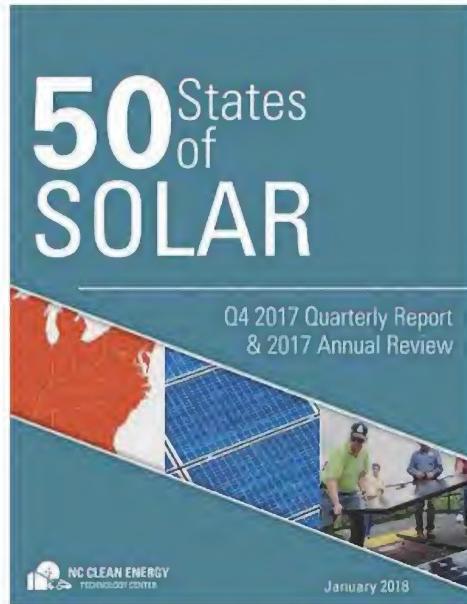
FIRST RESPONDER CLEAN
TRANSPORTATION DEMONSTRATION DAY
FEBRUARY 28, 2018
NC CENTER FOR AUTOMOTIVE
RESEARCH (NCCAR)

Please join us on February 28, 2018 for a first responder clean transportation demonstration day at NCCAR. Come learn about alternative fuel vehicles and clean transportation technology applications specific to law enforcement, fire and rescue, and emergency medical services. The event will include class room instruction with real world case study results, hands on product static review, closed course ride and drive, and lunch. See and learn about available technologies that can save money, improve efficiency, and extend vehicle service life. Targeted technologies will include:

- LPG vehicles
- CNG vehicles
- PHEV vehicles
- Idle reduction technologies
- Auxiliary power units (electric and internal combustion)
 - Calibration software
 - Electrified parking
 - Start-stop technologies

[Learn more](#)

Q4 2017 Quarterly Report & Annual Review 50 States of Solar



Key Solar Policy Actions in Q4 2017

[View the Executive Summary](#)

[Purchase and view the Q4 2017 Update Report](#)

The NCCETC released its [2017 annual review and Q4 update edition](#) of ***The 50 States of Solar***. The quarterly series provides insights on state regulatory and legislative discussions and actions on distributed solar policy, with a focus on net metering, distributed solar valuation, community solar, residential fixed charges, residential demand and solar charges, third-party ownership, and utility-led rooftop solar programs.

Key Solar Policy Actions in 2017

The report finds that 45 states and the District of Columbia took some type of solar policy action during 2017 (see figure below). Specifically, the report finds that:

- 84 utility requests in 35 states plus D.C. to increase monthly fixed charges or minimum bills on all residential customers by at least 10 percent were pending or decided.
- 31 states plus D.C. considered or enacted changes to distributed generation compensation policies.
- 21 states plus D.C. formally examined or resolved to examine some element of the value of distributed generation or the costs and benefits of net metering.
- 21 states took policy action on community solar.
- 19 utility requests in 10 states to add new or increase existing charges specific to rooftop solar customers were pending or decided.
- 8 states had policy action on third-party solar ownership laws or regulations.
- 6 states had action on utility-owned rooftop solar policies or programs.

[Read more about this report](#)

[View previous 50 States Reports](#)

Partners Support Low Income Energy Efficiency



At a recent meeting in Rocky Mount, project partners from the Center, Upper Coastal Plain Council of Governments (UCPCOG), the NC Sustainable Energy Association and Resispeak met with county social service directors and staff to demonstrate and discuss applications of the [Powering Energy Efficiency & Impacts Framework Project](#) database. NC State's Center for Geospatial Analytics is developing a GIS mapping application with energy use data from Roanoke Electric Cooperative and Wilson Energy and data from NC Department of

Health and Human Services (NCDHHS) and the NC Department of Environmental Quality energy assistance related programs to improve energy efficiency in low income households. Year two of the project, which began in October and is focused on the five county UCPCOG region, will involve broader stakeholder engagement to better serve community needs. To learn more about the PEEIF project view a five slide overview [here](#).

Clean Fuel Advanced Technology Project Request for Proposals Open

Over \$1,455,000 to be awarded for transportation-related emission reductions

The NCCETC has announced a call for projects through the Clean Fuel Advanced Technology (CFAT) Project. The 2018 \$5.6 million initiative, focused on reducing transportation-related emissions, is supported with federal Congestion Mitigation Air Quality funding from the NC Department of Transportation (DOT). The CFAT Project supports projects in [counties](#) that do not meet National Ambient Air Quality Standards. More than half of North Carolinians live in counties with unhealthy air, and transportation related emissions are a primary contributor to the state's air quality concerns. Up to \$1,455,000 in federal funding will be awarded to selected eligible applicants.

This is the first round of available funding through September 30, 2018. NCCETC anticipates the final request for proposals to open in May or June 2018. For more information click [here](#).

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